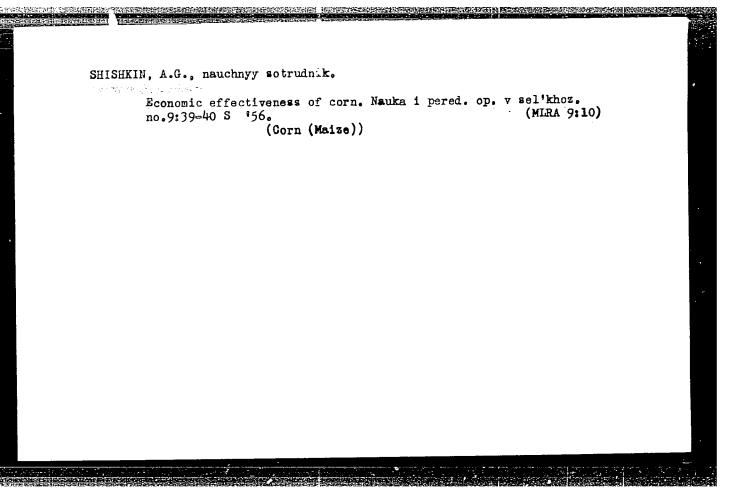
- L. SHISHKIN, A.G.
- 2. USSR (600)
- 4. Rotation of Crops
- 7. Introducing feed crop rotations on the Lenin Collective Farm. Korm.baza 3 no. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified



FINKEL MAN, S.: SHISHKIN, A.G.

Use of grain drying and cleaning towers at grain procurement points in Saratov and Chelyabinsk Provinces. Muk.-elev. prom. 24 no.8: 9-10 Ag 158. (MIRA 11:10)

1. Saratovskoye oblastnoye upravleniye khleboproduktov (for Finkel'man). 2. Nachal'nik sushil'no-ochistitel'noy bashni Nizhne-Uvel'skogo khlebopriyemnogo punkta Chelyabinskoy oblasti (for Shishkin).

(Grain-handling machinery)

both cases the tumors were found in old cows after they had been slaughtered.

Card

: 1/1

SHISHKIN, A. I.

Grasses

Greater attention to annual rye grass, Korm. baza 2 No. 3, 1951

Monthly List of Russian Accessions, Library & Congress, July 1952. Unclassified

。 第一个大学的自己,一个大学中心的对抗,是是国家的主义,是是国家的主义,是是国家的一个人,是国家的一个人,是国家的一个人,是国家的人,他们就是一个人,是国家的人,

ELSUKOV, M. P., SHISHKIN, A. I.

Grasses

Annual rye grass, its role in farm economy and scientific agriculture. Korm. baza 3 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

SHISKHIN, A. I.

"Agrobiological Characteristics and Agrotechnical Problems of Annual Rye Grass." Cand Agr Sci, All-Union Sci Res Inst of Fodder, Moscow, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

1. SHICHKIN, A. I.

2. USUR (600)

4. Rye Grass

7. Annual rye grass. Sel. i sem. 20, No. 2, 1953.

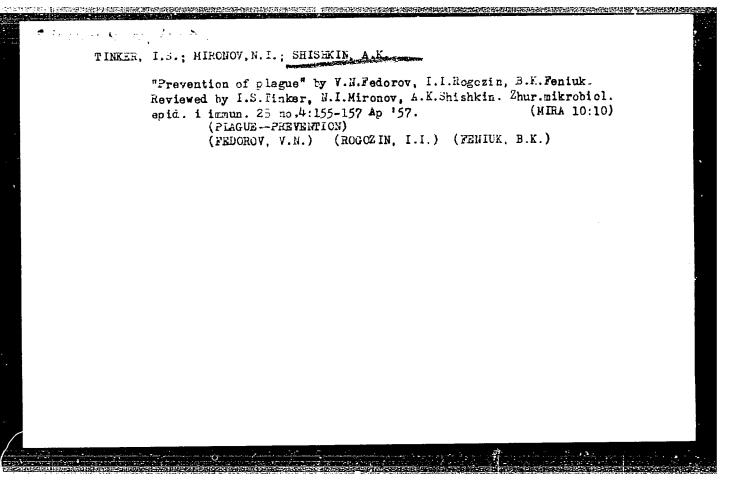
9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

SHISHKIN, A.I., kandidat sel'skokhozyaystvennykh nauk.

Mixed crops. Nauka i pered. op. v sel'khoz. 6 no.ll:40-43 N '56.

(MLRA 10:1)

(Corn (Maize)) (Forage plants)



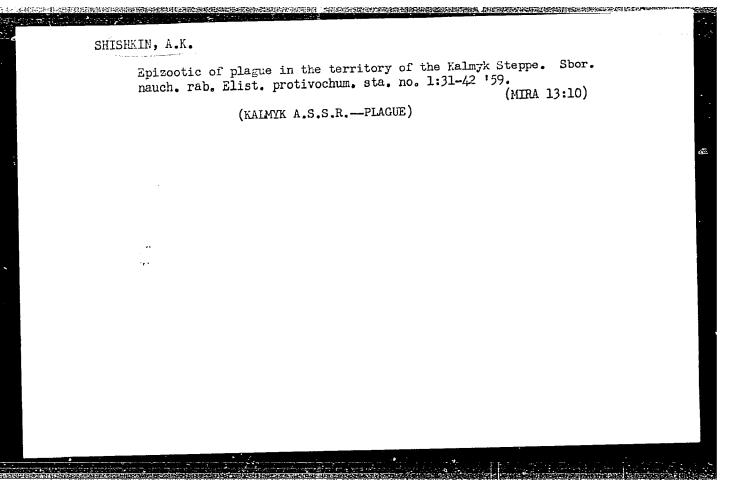
The R Healt S 157	(PLAGUE.	Research Institute ur.mikrobiol.epid Anti-Plague Insti	. i immun. 28 no.9: (MIRA	TOT~TQ/

MIRONOV, N.P.; TINKER, I.S.; SHISHKIN, A.K.; SHIRANOVICH, P.I.; VAL'KOV, B.G.; IVANOV, I.Kh.; KARPUZIDI, K.S.; KLIMCHENKO, I.Z.; SHIRYAYEV, D.T.

Contemporary status of the plague focus in the northwestern Caspian Sea region and problems in its further study. Sbor. nauch. rab. Elist. protivochum. sta. no. 1:19-29 159.

(MIRA 13:10)

(CASPIAN SEA REGION-PLAGUE)



MIRONOV, N.P.; SHISHKIN, A.K.

"Lectures on the epidemiology of plague" by IU.M. Rall'. Reviewed
by N.P. Mironov, A.K. Shishkin. Zhur.mikrobiol.epid. i immun. 30
no.7:137-139 Jl '59.

(FLAGUE) (RALL', IU.M.)

#### SHISHKIN, A.K.

Elimination of natural foci in the northwestern Caspian regions. Zhur. mikrobiol. epid. i immun. 32 no.5:9-15 My '61. (MIRA 14:6)

1. Iz Rostovskogo-na-Domu nauchno-issledovatel skogo protivochumnogo instituta.

(CASPIAN SEA REGION-PLAGUE)

L 5252-66(A) BWT(1)/EWA(j)/EWA(b)-2 ACC NR: AP5022047 RO/JK SOURCE CODE; UR/0286/65/000/014/0115/0116 AUTHORS: Shishkin Butyrina, G. A. P.; Kudryavtsev, N. A.; Belozovskiy, ن<sup>ح</sup>, امد B.; Oletina, R. ORG: none TITLE: A filtering lifesaver. Class 61, No. 173126 [announced by the Branch of the Organization of the State Committee on Chemistry, SSSR (Filial predpriyatiya Gosudarstvennogo komiteta po khimii SSSR) SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 115-116 TOPIC TAGS: life support equipment, air conditioning system, respirator ABSTRACT: This Author Certificate presents a filtering lifesever containing a mouthpiece (mask), a corrugated hose, and a breathing box (see Fig. 1). To increase its protective ability and to simplify its construction, the lifesaver is provided with two perforated containers for sorbents such as hepcalite and a dessicant. These containers are hermetically sealed in the breathing box in such a way that the air to be inhaled passes through each container. Card 1/2 UDC: 614.894 09010497

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APPROVED FOR RELEASE:

4- perforated containers

Orig. art. has: 1 figure. SUB CODE: LS

SUBM DATE: 18Jan64/

1- breathing box; 2- corrugated hose; 3- mouthpiece;

Card 2/2

OTH REF: ORIG REF: 000 /

AID P - 1324

: USSR/Engineering Subject

Pub. 110-a - 6/19 Card 1/1

: Direktor, B. Ya., Luneyev, V. V. and Shishkin, A. S., Authors

Engineers

: Results obtained in the operation of a high pressure Title

continuously operating coil boiler unit with liquid

slag removal

Teploenergetika, 2, 26-31, F 1955 Periodical

: Outlined are results of work in operation and testing of a unit consisting of a continuously operating high pressure Abstract

coil boiler with liquid slag removal of the 67-1-SP-230/100 type built by the Bureau for Construction of Continuously Operating Coil Boilers of the Podol'skiy Machine-Building Works im. Ordzhonikidze. This boiler is heated with pulverized Donets coal. Diagrams, charts.

Institution: As mentioned above

: No date Submitted

KOSHELEV, I.I., kand.tekhn.nauk; SHISHKIN, A.S., inzh.

Device for controlling steam temperature by injecting feed water into superheaters of high- and superhigh-pressure boilers with natural circulation. Teploenergetika 7 no.2: 59-60 F '60. (MRA 13:5)

1. Moskovskoye otdeleniye TSentral'nego kotloturbinnogo instituta. (Boilers)

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KILIGINA, M.L. (Kazan'); KRUPIN, V.I. (Kazan'); SHEL'HOVA, A.K. (Kazan');
SHISHKIN, A.V. (Kazan'); KHALYMBADZHA, V.G. (Kazan')

Stratigraphy of coal deposits in Tatarstan and southern Udmurt
A.S.S.R. Uch.zap.Kaz.un. 115 no.10:94-98 '55. (MIRA 10:5)
(Tatar A.S.S.R.--Coal geology)
(Udmurt A.S.S.R.--Coal geology)
```

3(0) AUTHORS:

Bludorov, A. P., Tuzova, L. S.,

sov/20-123-3-37/54

Shishkin, A. V.

TITLE:

The Coal Content of Lower Carboniferous Coal in Northwestern Bashkiriya (Uglenosnost' nizhnego karbona severo-zapadnoy

AND THE PROPERTY OF THE PROPER

Bashkirii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 3, pp 513-516 (USSR)

ABSTRACT:

Although Lower Carboniferous coal-bearing strata were found in all oil drill holes, the petroleum technicians usually speak of them only as coaly shales. The Kezan' Branch of the AS USSR has been concerned with this problem for several years. Bituminous coal occurs in Bashkiriya in the Tourmisian and Visean Stages. The former contains a fauna and spore assemblage in terrigenous deposits which (the assemblage) is characteristic of the Tournaisian Stage. Its thickness is 65-160 m, and oil was discovered in porous limestones. The Visean is represented in all substages and horizons.

L. S. Tuzova discovered a spore assemblage here which is characteristic of the Stalinogorskiy horizon. The age was determined by this spore assemblage since no fauna have been

Card 1/4

The Coal Content of Lower Carboniferous Soal in Northwestern Bashkiriya

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found in this horizon. The thickness of the Visean Stage is 25-74 m. Coal is rare in the Tul'skiy horizon, and a characteristic fauna, as well as Tul'skiy complex spores, occur in limestones. The thickness of the Tul'skiy horizon is 30-60 m. No coal was found in the higher lying sediments of the Lower Carboniferous. The limestones here and in the Middle and Upper Carboniferous contain a characteristic marine fauna. The coal-bearing sediments lie in northwestern Bashkiriya between the Tatarskiy and Bashkirskiy arches. The coal seams are found at a depth of -1150 to -1250 m, and in the south at -1750 m and perhaps still deeper. The coal-bearing masses of the Stalinogorskiy horizon formed on a swampy plain near a shallow sea. Its sediments telong to the following facies: a, littoral, b, river bed, c. deltaic, d. lacustrine and e. swamp. Alluvial sediments of facies d. and e. are predominant, and no fauna were found. The structure of the coalbearing mass shows several variations. Thus, several groups of sections can be recognized: 1. Thick, white quartz sandstone with cross-bedded strata, dark gray aleurolith and argillite. This mass is 50-74 m thick here, and the soal

Card 2/4

The Coal Content of Lower Carboniferous Coal in Northwestern Bashkiriya

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seams are also very thick. It lies in depressions of the limestone foundation on erosion surfaces of various old rocks. 2. Dark gray sandstones; however, argillite sometimes predominates. Coal seams are of slight thickness or absent. The mass here lie on highs of the limestone foundation, possibly with slight erosion. The thickness is 25-50 m. In conclusion the coal seams and the types of coal are described. Table 1 presents the chemical analysis. The authors distinguish: 1. cannel coal, 2. semi-cannel coal, 3. earlienthracite and 4. coaly shales. The coals of the region discussed here lie at great depths and have reached the stage of long-flame coal in their transformation. They belong mainly to the humus coals. S. N. Naumova gave valuable advice and references. There are 1 table and 3 Soviet references.

ASSOCIATION:

Kazanskiy filial Akademii nauk SSSR (Kazan' Branch of the Academy of Sciences, USSR)

PRESENTED: Card 3/4

June 30, 1958, by N. M. Strakhov, Academician

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BLUDOROV, A.P.; TUZOVA, L.S.; SHISHKIN, A.V.; SHUBAKOV, G.N.

Lower Carboniferous coal resources of southern Udmurtiz. Dokl.AN

SSSR 136 no.5:1168-1171 F '61. (MIRA 14.7)

l. Geologicheskiy institut Kazanskogo filiala AN SSSR. Predstevleno akad.N.M.Strakhovym.

(Udmirt A.S.S.R.—Coal geology)

SHISHEIN, A.V.

Lower Carboniferous stratigraphy and tectonics of the Melekess
trough. Uch. zap. baz. un. 121 no.2:95-144 '61. (MIRA 14:9)
(Volga Vailey-Geology)

MIROPOL'SKIY, L.M., glav. red.; SEYFUL-MULYUKOV, R.B., otv. red.;

AVER'YANOV, V.I., red.; MIROFOL'SKAYA, G.L., red.;

URAZAYEV,I.M., red.; SHISHKIN, A.V., red.; YUSUPOV, B.M.,

red.; KALANTAROV, A.P., red.izd-va; POLENOVA, T.F., tekhn.

red.

[Characteristics of the distribution of oil and gas fields in the Volga-Ural region] Zakonomernosti razmeshcheniia mestorozhdenii nefti i gaza Volgo-Ural'skoi oblasti. Moskva, Izd-vo AN SSSR, 1963. 365 p. (MIRA 17:2)

1. Kazanskiy filial AN SSSR (for Aver'yanov, Miropol'skaya, Urazayev, Yusupov).

SHIJHKIN, B. A.

SHISHKIN, F. A.: "Structural elements of the hemolymph of bees (Apis melliferalL.) and changes in them depending on the age and condition of the bees." Min Higher Education USSR. Kazan' State Veterinary Inst imeni N. E. Bauman. Kazan', 1956. (Dissertation for the Degree of Candidate in Biological Sciences)

Knizhnaya latopis', No 39, 1956, Moscow,

L 19563-65 EMT(1)/EMT(m)/EEC(b)-2/EED-2/T/EMP(t)/EMP(b) IJP(c)/SSD/SSD(c)/BSD/AFWL/ASD(a)-5/AS(mp)-2/AFETR/ESD(Jp)/ESD(gs)/ESD(t) JD s/0048/64/028/008/1360/1366 ACCESSION HR: AP4044654 AUTHOR: Spivak, G.V.; Shishkin, B.B.; Michurina, K.A.; Khabel!, V. TITLE: On the quantitative investigation of efficient emitters in a wide temperature range by observation of contrast in the electron-optical image Report, 11th All-Union Conference on Cathode Electronics held in Kiev, 11-18 Nov 19637 SOURCE: AN SSSR. IZV. Seriya fizicheskaya, v.28, no.8, 1964, 1360-1366 TOPIC TAGS: emitter, electron emission, electron microscopy, electron optics thode ABSTRACT: The present work was a continuation of a series of studies by the authors of emitters and surface emission by means of various electron-optical techniques. The authors' earlier analysis of contrast formation in an electron-optical image of an emitter is generalized to the case of nonuniform efficient cathodes. The results provide the basis for interpretation of data on local emission, taking into account various factors. For the present study there was unsed an electronic circuit that made possible rapid measurement of local currents from a whole region of the emitter, rather than from a point. The formation of (phase) contrast under the influence

L 19563-65 ACCESSION NR: AP4044654

of different factors (microfields, patch fields, photoemission, secondary emission, etc.) is discussed and the pertinent formulas are adduced. A block diagram of the emission electron microscope used for the study is shown in the Figure (Enclosure). A number of photographs of emitter surfaces are reproduced in the text. By means of the developed oscillof, phic procedure it should be feasible to perform rapid analyses of various cathodes in different stages of preparation. The enthors are grateful to A.M.Rozenfel'd for assistance in rebuilding the emission microscope."

ASSOCIATION: Fizicheskiy fakultet Mcskovskogo gosudarstvennogo universiteta (Physics Department, Moscow State University)

SUBMITTED: 00

SUB CODE: EC,EM

NR REF SOV: 012

ENCL: 01

OTHER: 001

2/3

EWT (m)/ETC/EWG(m)/T ACCESSION NR: AP5017665 DS

UR/0109/65/010/007/1295/1299

621.385.735.01

AUTHOR: Shishkin, B. B.; Dubinina, Ye. M.; Michurina, K. A. TITLE: Electron-optical investigation of oxide-coated cathodes

SOURCE: Radiotekhnika i elektronika, v. 10, no. 7, 1965, 1295-1299

TOPIC TAGS: oxide coated cathode

ABSTRACT: The results are described of an investigation of oxide-coated receiving-amplifier tubes by means of a 10<sup>-6</sup>-torr, 30-kv, 179x-enlargement electron emission microscope. Three groups of 10000-hr-in-service tubes were tested: (1) those with totally lost emission; (2) those whose emission current dropped by 30-50% after 5000 hrs; (3) those which withstood the life test. It was found that the cathodes have specific emission patterns with lighter stripes 5-25-micron wide and up to several-hundred-micron long. These stripes correspond to cracks or crazes on the cathode surface. The latter, as a rule,

Card 1/2

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ACCESSION NR: AP5017665

arose at early tube-treatment stages (after exhaustion). The cracks emit as well as or better than the brightest spots on the cathode. Good integral emission is associated with either (a) a network of cracks on the cathode or (b) fine-emission structure crazes. The latter ensure a longer tube life. "In conclusion, the authors wish to thank workers of the Moscow Electric-Lamp Factory L. M. Lipkovskiy and Yu. F. Zarutskiy for lending the tubes and for useful discussions. Orig. art. has: 4 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University)

SUBMITTED: 20Apr64

ENCL: 00

SUB CODE: EC

NO REF SOV: 007

OTHER: 008

L 363hh-66 EVT(m)/T/EWP(e)/EWP(t)/ETI IJP(c) AT/DS/JD/JG/WH
L 363hh-66 EMT(m)/T/EMP(e)/EMP(t)/ETT 15F(t) AT/25/47/26/030/005/0873/0876
ACC NRI AIGULAIGU (A.N.)
AUTHOR: Shishkin, B. B., Dubanina, Ye. M.; Michurina, K. A.
Manager State University in. M.V. Lomonogov (Fizienesky)
t thoday   Part Z. / Report
TITLE: Electron-optical investigation of oxide-coated cathodes. Part 2. Report, TWelfth All-Union Conference on the Physical Bases of Cathode Electronics held in
must feb All-Imion Conference of the All-Imion Conference
14 January V. 30, no. 5, 1966, 873-876 and
SCURCE: AN SSSR. Investiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 873-876 and
plant row tube cathode, alkaline earth oxide, electron
TOPIC TAGS: thermionic emission, electron tube cathode, alkaline earth oxide, electron emission microscope EFM-75 electron emission microscope
ABSTRACT: The oxide-conted cathodes of 53 receiving pentodes that had been content of a 10 000 hour life test were examined with an EEL-75 electron chission microscope. In the
These cathodes performed with networks of wide (up to 30 microns) Clacks second group were covored with networks of wide (up to 30 microns) Clacks second group were covored with networks of wide (up to 30 microns) Clacks with second group were cathodes performed poorly in the life test. The cathodes of the third well. These cathodes performed poorly in the life test.
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ACC NR: AP6000317

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7

AUTHOR: Shishkin, B. (Candidate of technical science)

ORG: Tractor Research Institute (Nauchno-issledovatel'skiy traktornyy institut)

TITLE: From the tractor builders to agriculture

SOURCE: Tekhnika v sel'skom khozyaystve, no. 10, 1965, 33-37

TOPIC TAGS: tractor, tracked vehicle, agricultural machinery, automotive industry

ABSTRACT: This article describes new types of tractors to be built during the 1966—1970 period. The tractors are divided into classes based on their pulling capacity. In the 0.6-ton class, it is planned to modernize the DT-20 wheel tractor by installing a 24-hp, 2-cylinder diesel motor in place of the 18-hp one-cylinder diesel; the tractor will then be designated T-25. In the 0.9-ton class, the design of the T-40 tractor will be improved and its motor power increased. Several modifications of this tractor will be made for clearing tall crops and for industrial purposes. In the 1.4-ton class, a modified MTZ-50 tractor will be the basic model for working with 4- and 6-row attachments. The 2-ton class will include 4 types of caterpillar tractors: a T-54V vineyard tractor and, built on the basis of this model, orchard, beet, and timber-hauling tractors. There will be two basic models of general-purpose tractors in the 3-ton class: a caterpillar DT-75 tractor the motor power of which will be increased to 80—90 hp (DT-90), and a 130-hp T-125 wheel tractor with a four-wheel drive. In the 4-ton class, the basic model Cord 1/2

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is the new T-4 general-purpose agricultural caterpillar tractor with a 110-hp motor, which will be increased to 130 hp in 1968. A modified model for swamps will be built on the base of the T-4. The K-700 200-hp general-purpose 4-wheel drive tractor will be the basic model in the 5-ton class. The motor power will be increased to 300 hp in 1969. In the 6-ton class, the heaviest class of agricultural tractors, the T-100M tractor will be replaced by the modernized T-130 tractor having a motor power of 140 hp, which will be increased to 160 hp in 1969. It is planned to build a swamp model of this tractor. In the 10-ton class an industrial version of the general-purpose T-130 will be produced for excavating and hauling work. The basic model in the 15-ton class is the general-purpose T-140 caterpillar tractor which will be built in three modifications: a swamp tractor, a pipe-laying tractor, and an excavating-hauling tractor. The DET-250 300-hp tractor will be produced in the 25-ton class. The plants producing the various tractors are named. Orig. art. has: 5 figures.

SUB CODE: 02, 13 / SUBM DATE: none

HW

Card 2/2

BGATOV, V.I.; AKUL'SHINA, Ye.P.; BUDNIKOV, V.I.; GERASIMOV, Ye.K.; GUROVA, T.I.; KAZANSKIY, Yu.P.; KAZARINOV, V.P.; KONTOROVICH, A.E.; KCSOLOBOV, N.I.; LIZALEK, N.A.; MATUKHIN, R.G.; MATUKHINA, V.G.; PETRAKOV, V.U.; RODIN, R.S.; SAVITSKIY, V.Ye.; SHISHKIN, B.B.; GRIN, Ye.P., tekhn. red.

[Lithoformational analysis of sedimentary rocks] Litologoformatsionnyi analiz osadochnykh tolshch. Pod red. V.I. Bgatova i V.P.Kazarinova). (MIRA 16:7)

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L 36320-66 EWT(1)/EWT(m)/T/EWP(e)/EWP(t)/ETI IJP(c) AT/WH/JD/HW/JG
ACC NR: AP6015788 (A,N) SOURCE CODE: UR/0048/66/030/005/0870/0872
AUTHOR: Shishkin, B. B.; Makher Sherif
ORG: Physics Department, Moscow State University in. M.V. Lomonogov (Finteherity fakul'tet Moskovskogo gosudarstvennogo universiteta)
TITLE: Do monolayer thermionic emitters exist? /Report, Twelfth All-Union Conference on the Physical Bases of Cathode Electronics held in Leningrad 22-26 October 1965/
SOUNCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 870-872 and inserts facing page 872
TOPIC TAGS: thermionic emission, electron tube cathode, barium, nickel, alkaline earth oxide
NESTIMOT: The authors discuss experimental work of their own and others bearing on the vailidity of L.S. Nergaard's treatment of a dispenser cathode as a semiconductor. Previous investigations with an electron emission microscope of cathodes fabricated from powdered nickel and alkaline earth carbonates led to the conclusion that during activation the main processes take place on the surfaces of nickel grains. New investigations have been undertaken with nickel platelets imbedded in pressed barium-nickel cathodes to represent macroscopic nickel grains. Before the cathodes were activated the electron emission images of the platelets were dark. During activation the emitting regions
Card 1/2

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ACC NR: APG015788

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invaded the platelets, owing, apparently, to migration of barium. The emission from the invaded portions of the platelets was uneven, there being dark regions within the emission zone. These could be either regions of low work function from which atomic barium was rapidly evaporating, or spaces between barium oxide crystallites. Carbon replicas of the platelet surfaces shadowed with platinum and examined with a UENV-100 electron microscope revealed crystalline formations and groups of them, some of the individual crystallites of which were 1000 Å long. It is assumed that the observed crystallites were barium oxide crystals, although direct experimental confirmation is lacking. It is concluded that crystallites can be formed on metallic grains in bariumnickel cathodes. It is suggested that the results of this work may be of assistance in understanding the processes involved in the adsorption of different substances on hot surfaces, and that there must be some residual gas pressure below which the crystallites will not form, owing to lack of oxygen. Orig. art. has: 3 figures.

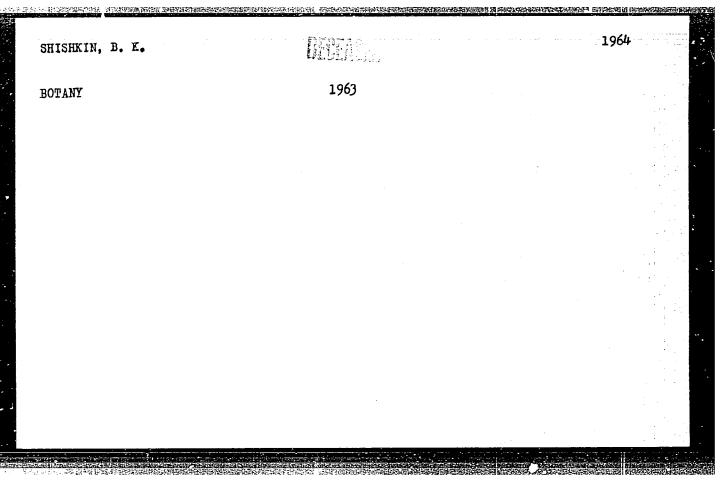
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ORIG REF: 005/

OTH REF: 001

Card PT



BORKHVARDT, V.S.; DROZDOVA, I.N.; ZAKHAREVICH, S.F.; KOZLOVSKAYA, N.V.; MARKOVSKAYA, L.A.[deceased]; MINYAYEV, N.A.; MURAV'YEVA, O.A.; SERGIYEVSKAYA, Ye.V.; SOKOLOVSKAYA, A.F.; STANISHCHEVA, O.N.; TAKHTADZHYAN, A.L.; FLOROVSKAYA, Ye.F.; TSVELEV, N.N.; SHISHKIN, B.K., prof.[deceased]; SHMIDT, V.M.; DUBROVSKAYA, I.P., red.

[Flora of Leningrad Province] Flora Leningradskoi oblasti. Leningrad. No.4. 1965. 356 p. (MIRA 18:9)

1. Leningrad. Universitet. 2. Chlen-korrespondent AN SSSR (for Shishkin).

BORISOVA, A.G.; IL'IN, M.M.; KLOKOV, M.V.; LINCHEVSKIY, I.A.; POBEDIMOVA, Ye.G.; SEMIDEL, G.L.; SOSKOV, Yu.D.; SOSNOVSKIY, D.I.; TAMAMSHYAN, S.G.; KHARADZE, A.L.; TSVELEV, N.N.; CHEREPANOV, S.K.; SHOSTAKOVSKIY, S.A.; BOBROV, Ye.G., doktor biol. nauk, prof., red. toma; SHISHKIN, B.K., red. izd. [deceased]; SMIRNOVA, A.V., tekhn. red.

[Tribes Cynareae and Mutisieae.] Kolena Cynareae i Mutisieae. Moskva, 1963. 653 p. (Akademiia nauk SSSR. Botanicheskii institut. Flora SSSR, vol.28). (MIRA 16:12)

BORISOVA, A.C.; VASIL'YFV, V.N.; VASIL'CHENKO, I.T.; KIRPICHNIKOV, M.E.;
LEONOVA, T.G.; LIPSHITS, S.Yu.; TSVELEV, N.N.; CHEREFANOV, S.K.;
SHISHKIN, B.K. [deceased]; EOBROV, Ye.C., prof. doktor biol.nauk,
red. toma.

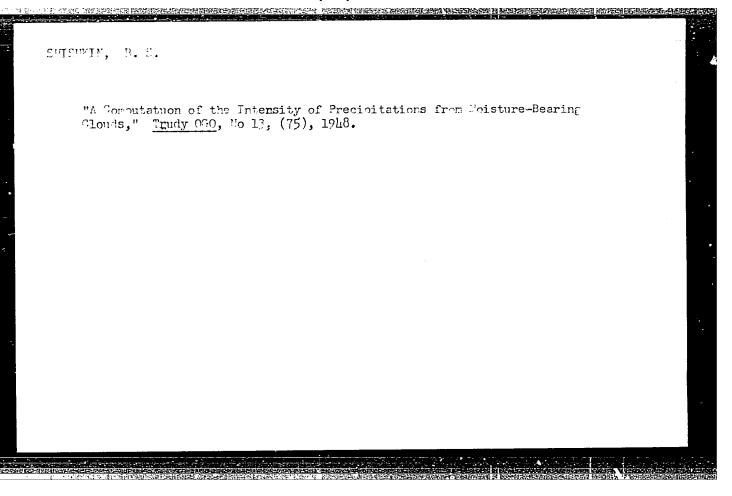
[Cichorioideae.] Cichorioideae. Moskva, Izd-vo Nauka, 1964. 796 p.
(Flora SSSR, vol.29)

(MIRA 18:2)

ZHUHAVSKALA, G.A.; RUPO, V.H.; SHISPKIL, P.M.

Low volume spraying of cotton. Zasheh. rast. et vred. i bol. 9 no.10:16-17 '64 (MIRA 18:1)

1. Institut zoologii i parazitologii AN UzSSR i Sremeaziatskapa gruppa Gosudarstvennogo nauchno-issladovatel'skogo instituta Grazhdanskogo vozdushnogo flata.



SEISEKIN, B.V.

25187 Shishkin, B.V. Otechestennye Elekronobiln. Avtomobprom-St', 1949, No.8, C.10=12

SO: Letopis' No. 23, 1949

SHISHKE, B. V. (Engr.)
"Investigation of the Motion of the Runners of a Snowmobile." Cand Tech Sci, Moscow Automotive Mechanics Inst. 5 Mar 54. Dissertation (echernyaya Mosava Moscow, 21 Feb 54)
So: SUM 186, 19 Aug 1954

SHISHKIN, B.V.

USSR/Miscellaneous - Exhibits

Card 1/1

Pub. 12 - 10/15

Authors

Shishkin, B. V.

Title

The international automobile exhibition in Vienna

Periodical

Avt. trakt. prom. 8, 28-30, Aug 1954

Abstract

A narrative report is presented concerning the international automobile exhibition in Vienna, in 1954. Short comments are given regarding the structural and operational characteristics of American, German and Italian vehicles. Illustrations.

Institution:

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Submitted

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SHISHKIN, Co., inshener.

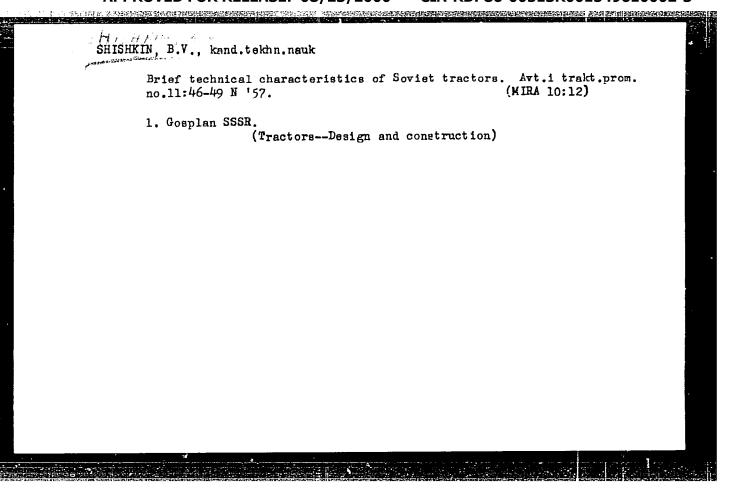
Method of repairing bronze parts. Mor.i rech. flot 14 no.1:30-31
(MIRA 7:1)

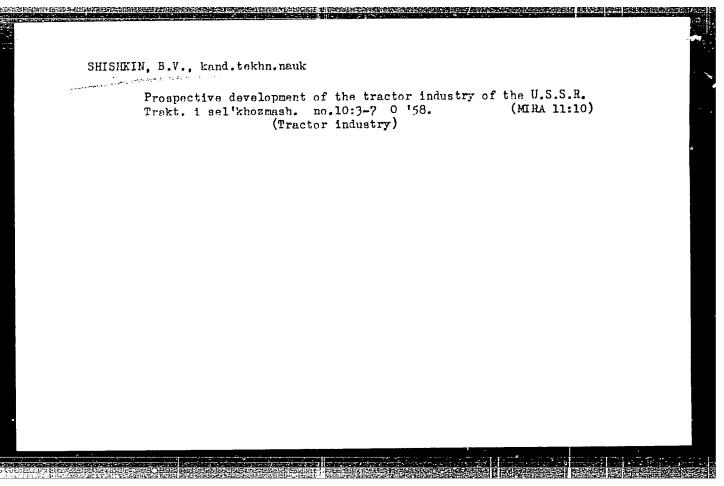
Ja 154.

(Ships--Maintenance and repairing)

SHISHKIN, B.V., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii

The usj of plastics in foreign automobiles. Avt.trakt.prom. no.9:
25-30 S '55. (MLRA 8:12)
(Automobiles--Design and construction) (Plastics)





SHISHKIN, B.V., kand. tekhn. nauk

Tractors of the seven-year plan. Za rul. 17 nc.4:2-3 Ap '59.

(Tractors)

SHISHKIN, B.V., kand.tekhn.nauk

Wheel-type truck tractors and their use in agriculture. Trakt.
i sel'khozmash. 32 no.5:3-4 My '62. (MIRA 15:5)

1. Gosudarstvenny, soyuzny, nauchno-issledovatel'skiy traktornyy institut.

(Tractors)

SHISHKIN, F., uchitel'

Made with one's own hands. Politekh. obuch. no.2:90-91 F '58. (MIRA 11:1)

1. Srednyaya shkola No. 22 Gor'kovskoy zheleznoy dorogi Vladimirskoy oblasti, Selivanskogo rayona, poselok Volosataya.

(Technical education)

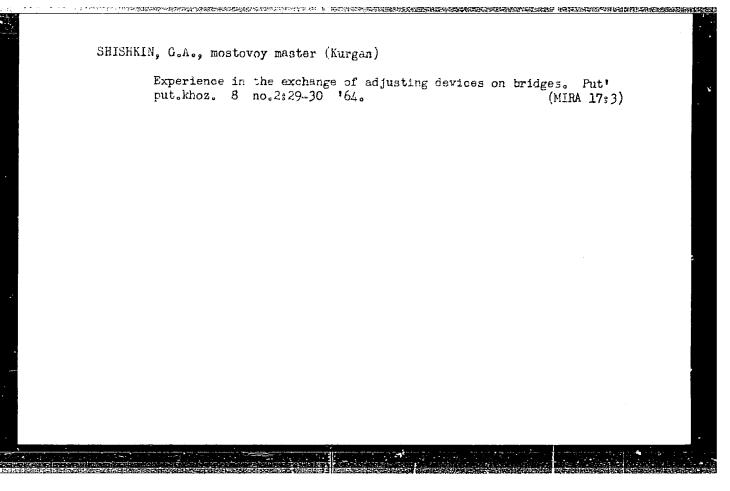
1	SHISHKIN.	$\alpha$	.ENG.
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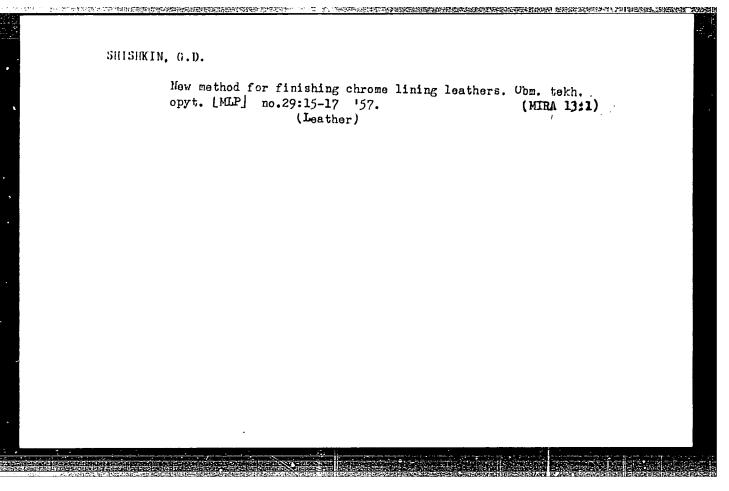
- 2. USSR (600)
- 4. Steam Boilers, Marine
- 7. Experience in designing steam superheaters for ship boilers. Mor.flot 12 no.10, 1952.

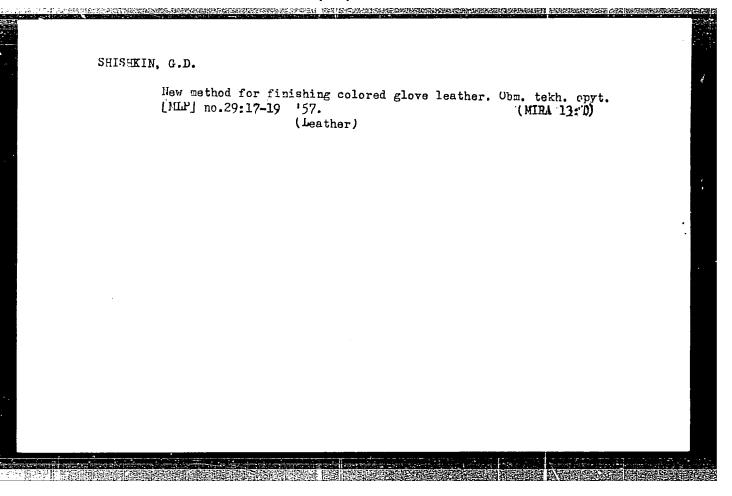
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

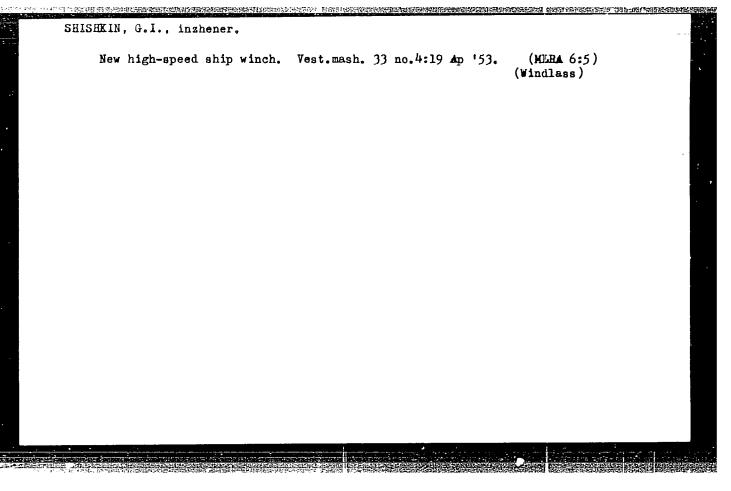
SHISHKIN, G.; KOLOLA, G.

Apparatus for hydraulic testing of cylinders of marine internal combustion engines. Mor. i rech.flot 14 no.12:30 D '54, (MLEA 8:1) (Marine engines)









POZIN, M.Ye.; KOPYLEV, B.A.; VAN LI-SHEN; SHISHKIN, G.I.

Rate of decomposition of apatite by nitric acid solutions of the system CaO - P2O5. N2O5- H2O. Zhur.prikl.khim. 36 no.2:242-251 F \*63. (MIRA 16:3)

1. Leningradskiy tekhnologicheskiy inštitut imeni Lensoveta. (Apatite) (Nitric acid) (Phosphates)

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549610002-3

L 33766-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WB/DJ

ACC NR. AR6017323

(A)

SOURCE CODE: UR/0273/66/000/001/0026/0026

AUTHOR: Shishkin, G. M.

TITLE: Electronic and graphic investigation of protective files formed on parts during storage

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 1.39.181

REF SOURCE: Zap. Leningr. s.-kh. in-ta, v. 97, 1965, 92-96

TOPIC TAGS: lubricant, lubricant additive, metal surface, corrosion, anticorrosion additive, steel, nonferrous metal, surface film
ABSTRACT: The processes taking place on the surface of engine parts during long storage are described. Samples simulating D-54 engine crankshaft-connecting rod parts in an experimental apparatus - the veserometer AVK-2-were studied. The samples were in a contact for 30 days with Dm-11 oil which has a (TSIATIM-339) additive N The films formed by anticorrosion additives on steel and on non-ferrous metals have crystalline lattices. The corrosion agressive medium of humid air reaches the metal surface through the intercrystalline fissures of the film. Consequently, in selecting protective agents it is necessary to consider not only their interaction with metal but also the forces acting between the molecules and the crystals of the additive.

SUB CODE: 11, 07/ SUBM DATE: none

 $C_{\text{ord}} 1/1 > 2$ 

SHISHKIN, G. P. (Chief Engineer) (Institute of Mechanics Academy of Sciences Ukrainian SSR)

"Experiment of developing a three-axis gyrostabilizer for a loop antenna intended for aeroelectrical prospecting for natural resources."

paper presented at the Second Scientifc and Technical Intervuz Conference on Problems of Contemporary Gyroscopy, Ie. F. Otvagin, Secretary of the Organization Committee; Leningrad, Izvestiya Uchebnykh Zavedenity, Prihorostroyeniye, No. 5, Sep/Oct 1958, pp 161-163

The Second Intervuz Conference on Problems of Contemporary Gyroscopy Technique, convoked by decision of the Ministry of Education USSR, took place in the Leningrad Institute of Precision Mechanics and Optics from 24 to 27 November 1958.

SHESHEIN, G. S., DWRIBAS, V. I.

"Histochemical Analysis of the Enzymes of the Esterase Group in the Wall of the Human Aorta During Atherosclerosis."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Laboratory of Histochemistry of the Division of Experimental Biology and Pathology of the Institute of Experimental Biology and Medicine, Academy of Sciences USSR, Novosibirsk.

SHABANOV, A.M.; SHISHKIN, G.S. Histochemical study of some enzymes in the structural elements of the vascular plexuses in the human brain. Vop. pat. i reg. org. krov. i

(MIRA 18:7) dykh. no.1:179-184 '61.

中,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1

DERIBAS, V.I.; FUKS, B.B.; SHISHKIN, G.S.

activation of lipolytic enzymes in the wall of the human aorta in atherosclerosis. Dokl. AN SSSR 134 no.2:43-444 S 160.

(MIRA 13:9)

1. Institut eksperimental'noy bilogii i meditsiny Sibirskogo otdeleniya Akademii nauk SSSR. Predstavleno akad. N.N. Anichkovym.

(ARTERIOSCLEROSIS) (LIPASES) (ESTERASES) (AORTA-DISEASES)

FUKS, B.B.; LEYTES, F.L.; DERIBAS, V.I.3 SHISHKIN, G.S.

Studying the pathogenesis of atherosclerosis by histochemical determination of esterases and lipases. Dokl. AN SSSR 143 no.1:245-248 Mr 162. (MIRA 15:2)

1. Institut eksperimental noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR i TSentral nyy institut kurortologii i fizioterapii. Predstavleno akademikom N.N.Anichkovym.

(ARTERIOSCIEROSIS)

(CHOLESTEROL METABOLISM)

FUKS, B.B.; SHISHKIN, G.S.

Principles and methods of the histochemical analysis of enzymes. Arkh. anat., gist. i embr. 44 no.6:103-113 Je '63. (MIRA 17:7)

l. Laboratoriya gistokhimii (zav. - doktor med. nauk B.B. Fuks) Instituta eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR, Novosibirsk.

FURS, B.B. (Ecvosibirsk); VINOGRADOV, V.V. (Novosibirsk); SHISHKIN, G.S. (Novosibirsk); MAKSIMOVSKIY, L.F. (Novosibirsk)

Histochemical study of proteins, mucopolysaccharides, certain enzymes and deoxyribonucleic acid in skin wounds in alimentary and alimentary-chemical vitamin C deficiency. Arkh. pat. no.1: 39-47 (MIA 17:11)

1. iz labopatorii gistokhimii (rav. - doktor med. nauk B.F. Ruks) Instituta eksperimental'noy biologii i meditsiny (dir. - prof. Ye.N. Meshalkin) Sibirskogo otdeleniya AN SSSR i laboratorii nukleinevykh kislot (zav. - kand. med. nauk R.I. Salganik) Instituta tsitologii i genetiki (dir. K.D. Belyayev).

SHTEFKO, I.V.; RIDEL', E.I.; YEFIMOV, G.P., kand. tekhn. nauk, retsenzent; SHISHKIN, G.S., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Over-all mechanization of the loading and unloading of fruit and vegetables] Kompleksnaia mekhanizatsii pogruzki-vygruzki plodoovoshchei. Moskva, Transzheldorizdat, 1963.

(MIRA 16:7)

(Loading and unloading) (Fruit-Transportation)

(Vegetables-Transportation)

YUSHKEVICH, Ye.P., kand. tekhn. nauk; VOROBEY, A.K., kand. tekhn. nauk; TRUSHIN, A.M., inzh.; POTAPOV, V.P., inzh., retsenzent; SHISHKIN, G.S., inzh., red.; DECZDOVA, N.D., tekhn. red.

[Centralized freight transportation; experience of railroad and automotive transportation in White Russia] TSentralizovannye perevozki gruzov; opyt zhelezndorozhnogo i avtomobil'nogo transporta Belorussii. Moskva, Transzheldorizdat, 1963. 66 p. (MIRA 16:10) (White Russia--Freight and freightage)

OZEROV, F.I.; LYAKHOV, G.A., inzh., retsenzent; SHAYKEVICH, M.D., inzh., retsenzent; SHISHKIN, G.S., inzh., red.; KHITROVA, N.A., tekhn. red.

[Labor protection and safety measures in materials handling]
Okhrana truda i tekhnika bezopasnosti v gruzovom khoziaistve.
Moskva, "Transport," 1964. 143 p. (MIRA 17:2)

FEDORCHUK, V.A.; MARTYNOV, M.S., inzh., retsenzent; SHISHKIN, G.S., inzh., red.; VOROB'YEVA, L.V., tekhn. red.

[Mechanization of the servicing of ice-cooled refrigerator cars] Mekhanizatsiia ekipirovki vagonov-lednikov. Moskva, "Transport," 1964. 65 p. (MIRA 17:3)

SHISHKIN, G.V.; MAMAYEV, V.P.

2-Thienylhydrazine. Izv. Sib. otd. AN SSSR no.2:112-113 '62.

(MIRA 16:10)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

SHISHKIN, G.V.; MAMAYEV, V.P.

Synthesis of  $\beta$  = (2-threnyl)alanine. Zhur,ob,khim. 34 no.2:401-403 F = 164. (MIRA 17:3)

1. Novosíbirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

89-9-13/32 BARANOV,S.A., POLEVOY, R.M., RODIONOV, Yu.F. AUTHOR: Fuclson Try Levels of Tu<sup>169</sup>. (Energeticheskiye provni yadra Tu<sup>169</sup>) · TITLE: Atomnaya Energiya, 1957, Vol 3, Nr 9, pp 256-257 (U.S.S.R.) PERIODICAL: By means of a double-focusing  $\beta$ -spectrometer, a scintillation ABSTRACT: spectrometer, and a proportional aiming tube the pr-radiation of the nucleus Yb169 was measured and a random scheme was set up. The following y -energy with the corresponding multipole order was found: 130,48 (E2) 8,42 (M1 + E2)156 🗈 177,2! (0,75 M1 + 0,25 E2) 197,97 (M1) 240,6 (E1 ?) 260,8 (E1 ?) 20,74 (M1) 63,13 (E1) 93,62 (0.9 M1 + 0,1 E2) 109,67 (M1) 118,20 (E2) (E2) 307,7 The above can be arranged in form of a scheme with the following level values (spin and parity in brackets): Card 1/2

Nuclear Energy Levels of Tu<sup>169</sup>. 89-9-13/32 (1/2)0  $(3/2 \pm)$  $(5/2 \pm)$ 8,42 118,20  $(7/2 \pm)$ 138,90 316,06  $(7/2 \pm)$ (7/2 = )379,19 (9/2 -) 472,8 (With 2 Slavic References). ASSOCIATION: Not given PRESENTED BY: SUBMITTED: 15.4.1957 AVAILABLE: Library of Congress Card 2/2

sov/56-54-6-2/51 Firenov, S. A., Rodionov, Yu. F., Shishkin, C. Y., AUTHORS: Chistyskov, L. V. The inergy Levels of the  $\mathrm{Dy}^{-161}$  Nucleus (Unergeticheshiye មួយច្រើន 🗼 urovni y dra (y 151) -Thurnal eks erimental noy i teoreticheskiy fiziki, 1958, : L. DICT. Vol 34, Er 6, pp 1367-1380 (USSR) First, the authors mention the previous papers concerning this subject. The purpose of this paper is a more accurate BBIRACT: investigation of the electron spectrum (including its low energy part) and of the soft  $\gamma$ -radiation caused by the decay of Tb 101. The electron spectrum of Tb 101 was investigated by means of a magnetic G-spectrometer with double focusing of the electrom beam (Ref 11). The y-radiation caused by the decay of Tb161 was investigated by means of spectrometric proportional counters. The experimental device and the preperation of the radioactive source (Tb 161) is described in a few lines. A diagram shows a great part of the 9-spectrum and the electron spectrum for the interval of the values of Card 1/4

The Deerry Levels of the Dy 161 Nucleus

sov/56-34-6-2/51

Ho from 200 to 900 G.cm (obtained by means of the thin source) and from 780 to 980 G.cm (obtained by means of a more intense source). The authors observed some dozens of electron lines which are placed mainly in the low energy part of the spectrum, but they observed no(although if weak) high energy conversion lines. A table gives an interpretation of the conversion lines corresponding to the  $\gamma$ -transitions of the Dy161 nucleus and also the intensities for some lines. In the Curic (Kyuri) diagram one may discern 4 portial spectra the energy limits or which are given. The following part of this paper deals with the measurement by means of a spectrometric proportional counter and of a y-spectrometer. A diagram shows the spectrum of the K-radiation and of the soft radiation of Dy 161 plotted in the coordinates. (I,  $\Xi_{\rm X},\gamma$ ) where I denotes the number of the pulses and  $\Xi_{X,\gamma}$  - the energy of the X- and  $\gamma$ -radiation (in keV) for 3 different measurement series. The next part of this payer deals with the determination of the multipole type of the y-transitions. A table gives the experimental values of the absolute conversion coefficients for the 7-radiations with the energies 25,75; 48,9; 74,4 keT. The

Card 2/4

e The one of Levels of the Dy 161 Heclous

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y-radiction with the energies 40,7 the 74,5 her correspond, respectively, to the magnetic me electrical lipola radiation. In penalmetion of a scheme of the energy levels of the by 101 anchors on the lasts of the experimental data lasts to come difficulties. Nome of the observed conversion limes and 7-lines cannot be explained in an unarbiguous way. Or the Dy 11 anchors energy levels with 15,0; 44 ± 46; 48,9; 74,5; 64; 102; 103,0; 151,5; ~525 het tere leur. A figure alows the possible colone of the Dy 101 anchors, it was plotted according to the engerimental into Dut this scheme does not preten to be a complete one. he outhors thank F. H. Mairovshife, A. T.-Baz', V. W. Strutinship, L. M. Leher, and D.F. Earetskip for the participation in the discussion concerning this paper. They thank also I. A. Sliv who placed to the authors' disposal some new data concerning the convercion coefficients of L-subshell atoms. There are 5 figures, 4 tables, and 21 references, 5 of which are Soviet.

Card 3/4

BARAHOV, S.A.; POLEVOY, R.M.; RODIONOV, Yu.F.; SHISHKIN, G.V.; SHUBKO, V.M.

[Radioactive decay of Th<sup>231</sup>] Izuchenie radioaktivnogo raspada Th<sup>231</sup>. Moskva, In-t atomnoi energii AN SSSR, 1960. 22 p. (MIRA 17:1)

S/048/60/024/03/02/019 B006/B014

AUTHORS: Baranov, S. A., Polevoy, R. M., Rodionov, Yu. F., Shishkin,

G. V., Shubko, V. M.

TITLE: Investigation of the Radioactive Decay of Th<sup>231</sup>

PERIODICAL: Izvestiya Akademii nauk SSSR. S.ciya fizicheskaya, 1960,

Vol. 24, No. 3, pp. 261-271

TEXT: The article under review was read at the Ninth All-Union Conference on Nuclear Spectroscopy (Khar'kov, January 26 - February 2, 1959). Th<sup>2</sup>) is a well-known β-emitter with a half-life of 25.6 hours; numerous investigations of the level scheme have already been conducted. The authors were stimulated to further investigations by the fact that a level scheme deviating from Ref. 5 had been published in Ref. 4. The sample was obtained by bombarding Th<sup>2</sup>30 with slow neutrons in the RFT reactor. The subsequent chemical treatment of the sample is described in the introduction. Numerous details concerning measurements of the electron spectrum are reproduced in the 2nd section. Fig. 1 shows the most

Card 1/3

Investigation of the Radioactive Decay of  $_{\mbox{\scriptsize Th}}\mbox{231}$ 

S/048/60/024/03/02/019 B006/B014

but is not in agreement with those published in Refs. 4 and 5. The authors finally thank  $P_{\circ}$   $E_{\circ}$  Nemirovskiy for discussing results. There are 3 figures, 3 tables, and 16 references, 3 of which are Soviet.

VB

Card 3/3

SHISHKIN, G.V.

Value function in multigroup age-diffusion approximation.

Dokl. AN BSSR 7 no.10:669-672 0 '63. (MIRA 16:11)

l. Institut teplo- i massookmena  $A^N$  BSSR. Predstavleno akademikom  $A^N$  BSSR A.K. Krasinym.

SHIS.KIR, G.V.

Some conclusions of the theory of perturbations in a multigroup diffusion-age approximation. Bohl. All RS3.17 no.11:743-745 H 463. (CHM 17:9)

1. Institut tejdo- i massoobmena Ali BSSA. Fredstavleno akademikom Ali BSSA A.K. Krasinym.

LAZUKOV, N. A.: GAGARINSKIY, Yu. V.; GARANIN, S. I.; SHISHKIN, G. V..

"Ornation-water oritical assemblies."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva,
31 Aug-) Sep 68.

ACCESSION NR: AP4036556

8/0139/64/000/002/0031/0038

AUTHOR: Shishkin, G. V.

TITLE: On some positron emission properties induced by antineutrino flow on protons  $(\widetilde{\mathcal{V}} + p \rightarrow n + \widetilde{e})$ 

SOURCE: IVUZ. Fizika, no. 2, 1964, 31-38

TOPIC TAGS: positron, antineutrino, proton, plane wave, Dirac spinor, wave function, matrix element, emission angle, longitudinal polarization, particle theory

ABSTRACT: Some properties of positron emission, induced by antineutrino flow on protons, have been investigated analytically. The method of Dirac particle theory with oriented spin is used, with the Hamiltonian of the reaction  $v+p\to n+e$  written in the form  $H_{\rm ex.}=\sum_{j}G_{j}(\Psi_{\alpha}^{+}O_{j}\Psi_{\alpha})(\Psi_{\alpha}^{+}O_{j}\Psi_{\gamma}^{-})$  where  $G_{j}$  - constant corresponding to j-th interaction mode, j=V, A, and  $O_{V}=a_{\mu}=(la,l)$ ,  $O_{A}=a_{\mu}=(\sigma,l\rho_{1})$ . The wave function of the protons, neutrons, antineutrinos, and positrons is written as plane waves for the differ stial reaction probability per unit time, or

Card 1/2

#### CIA-RDP86-00513R001549610002-3 "APPROVED FOR RELEASE: 08/23/2000

ACCESSION NR: AP4020381

\$/0250/64/008/002/0094/0096

AUTHOR: Shishkin, G. V.

والمراوية TITLE: Possible approach to studying the behavior in time of reactor neutron flow in approximate perturbation theory (Presented by A. K. Krasin, academician, AN BSSR)

SOURCE: AN BSSR. Doklady\*, v. 8, no. 2, 1964, 94-96

TOPIC TAGS: neutron flow, reactor, approximate perturbation theory, diffusiongrowth approximation, coefficient of fission, control rod, equation of neutron balance

ABSTRACT: The author proposes determination of neutron flows in a reactor as functions of time in a diffusion-growth approximation by the nethod of the theory of perturbations. He assumes that the changes in the physical properties of the reactor in time, as implicit functions of the initial neutron flows of the reactor, are given. In a multi-group diffusion-growth approximation, starting with equations of balance of neutrons, he obtains the desired relations for small & t. He handles single, double, and multi-group diffusion-growth approximations. "I use this opportunity to thank academician of the Academy of Sciences of BSSR, A. K. Krasin,

Card 1/2

L 14515-65 EWT(m) DIAAP/AFWL/ASD(a)-5/SSD/ESD(t) ACCESSION NR: AP5000328 S/0056/64/047/005/1757/1758

AUTHOR: Shishkin, G. V.

TITLE: Concerning one property of lepton emissions in the interaction between neutrinos and matter

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 5, 1964, 1757-1758

TOPIC TAGS: nucleon, neutrino, lepton, nucleon scattering, polarization

ABSTRACT: Using the theory of Dirac particle with oriented spin, the author derives expressions for the degrees of longitudinal and transverse polarizations of the leptons produced in reactions of the type  $v + N \rightarrow N' + L$  (v - neutrino or antineutrino, N - target nucleon, N' - product nucleon, L - lepton), and note that if the field of the target nucleons is fully polarized in the direction of

Card 1/2

L 14515-65 ACCESSION NR: AP5000328 the spin of the incoming neutrino (antineutrino), then the degrees of longitudinal and transverse polarizations of the leptons, and consequently also the spatial components of the lepton polarization vector produced in this interaction are independent of the constants of weak interaction in the (V, A) variant of weak four-fermion interaction in first approximation of perturbation theory. "I take the opportunity to thank Professor B. Pontecorvo for a consultation." Orig. art. has: 8 formulas. Institut teplo- i massoobmena Akademii nauk Belorusskoy SSR (Institute of Heat and Mass Exchange, Academy of Sciences Belo-ASSOCIATION: russian SSR) ENCL: 00 06Apr64 SUBMITTED: OTHER: 001 NR REF SOV: 003 SUB CODE:

Synthesis of \(\beta\)-(pentafluorophenyl) alanine. Izv. AN SSSR, Ser. khim.

no.5x934 '65.

l. Novosibirskiy institut organisheskoy khimii Sibirskogo otdeleniya

AN SSSR.

MISHA III . Go Jam		
Polarizing properties of $(\forall \mu + p \rightarrow n + \mu^+, \forall 160-163)$ Mr 165.	muons in "elastic" neutr $\mu + n \rightarrow p + \mu^{-}$ ). Dokl.	Ino processes AN BSSR 9 no.3: (MIRA 18:6)
l. Institut teplo- i mas		
e.		

UR/0139/65/000/004

L 8564-66 EWT(m)/T/EWA(m)-2

ACCESSION NR: AP5021185

AUTHOR: Shishkin, G. V. 44.95

TITLE: Concerning the properties of lepton emission produced when neutrinos inter-

SOURCE: IVUZ. Fizika, no. 4, 1965, 166-171

TOPIC TAGS: neutrino, lepton, weak nuclear interaction, fermion, electron polarization, positron, electron, mu meson, quantum electrodynamics

ABSTRACT: The author investigates some properties of lepton emissions accompanying the interaction between neutrino and matter, including the "elastic" neutrino processes, which are described by the general (V, A) variant of weak four-fermion interaction, and the corresponding reactions with antiparticles. The polarization properties of the lepton processes in question, which can be written in the form  $V + N \rightarrow B + L$  (V--neutrino or antineutrino, either muonic or electronic, N--the target nucleus, proton or neutron, B--the product, neutron or proton, I--lepton, electron, positive or negative muon). The degrees of longitudinal or transverse polarizations of the leptons are calculated, and the possibility of unpolarized leptons being present in the beam is discussed. The calculations are made by the method of the theory of Dirac particles with criented spin, developed

Card 1/2

ь 8564-66

ACCESSION NR: AP5021185

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by A. A. Sokolov (with D. D. Ivanenko, Kvantovaya teoriya polya [Quantum Field Theory], M. 1952; Vvedeniye v kvantovaya elektrodinamiky [Introduction to Quantum Electrodynamics], M., 1958). It is shown that the polarization vector of the produced protons is independent of the weak-interaction coupling constants and all the beam leptons are polarized when the spins of the incoming neutrino (antineutrino) and the target nucleons are parallel. The presence of unpolarized neutrons in the beam is discussed briefly. "I thank Professor B. M. Pontecorvo for consultation, and Professor A. A. Sokolov of the Moscow University for interest." Orig. art. has: 23 formulas.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR (Institute of Heat and Mass

Exchange AN BSSR)

SUBMITTED: 17Apr64

ENCL: 00

SUB CODE: GP

NR REF SOV: 006

OTHER: 007

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Card 2/2

Nonpolarized state in lepton radiations engendered in neutrino interaction with matter. Dokl. AN BSSR 9 no.7:443-445 Jl '65. (MIRA 18:9)

1. Institut teplo- i massoobmena AN Belorusskoy SSR.

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Insular asymmetry of A sleday and negatral weak surrent (7 e ) . Eckl. IN BSSR 9 no.8:51.515 ng lob.	
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L 00890-67 EWT(m)/T

ACC NR: AP6021922

SOURCE CODE: UR/0250/66/010/006/0381/0384

AUTHOR: Shishkin, G. V.

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ORG: Institute of Nuclear Power Engineering. AN BSSR (Institut yadernoy energetiki AN BSSR)

TITLE: Two neutrinos or one?

SOURCE: AN BSSR. Doklady, v. 10, no. 6, 381-384

TOPIC TAGS: neutrino, muon, electron, antineutrino, fermion, collision cross section, neutron, proton beam, weak nuclear interaction

ABSTRACT: This paper analyzes the cross section of weak tetrafermion interaction from the point of view of the possibility in principle of an experimental check of the component nature of the neutrino. Three groups of processes are examined:

1) with the participation of only an electron neutrino; 2) with the participation of only a muon neutrino; and 3) with the simultaneous participation of electron and muon neutrinos. It is concluded that the experimental study of the first two groups cannot give useful information on the component nature of the neutrino. The third group could give useful information, but an experimental study of the processes  $V + e \rightarrow V' + \mu - equires$  proton beams with an intensity of  $10^{14}$  and energies of 250 BeV. The author thanks Academician of the Academy of Sciences BSSR, A. K. Krasin for interest in the work. This paper was presented by Academician, AN PESSR, A. K. Krasin. Orig. art. has: 5 formulas.

Cord 1/1 SUB CODE: 20/ SUBM DATE: O5Feb66/ ORIG REF: O05/ OTH REF: O10

SHISHKIN, G.V. [Shyshkin, H.V.]

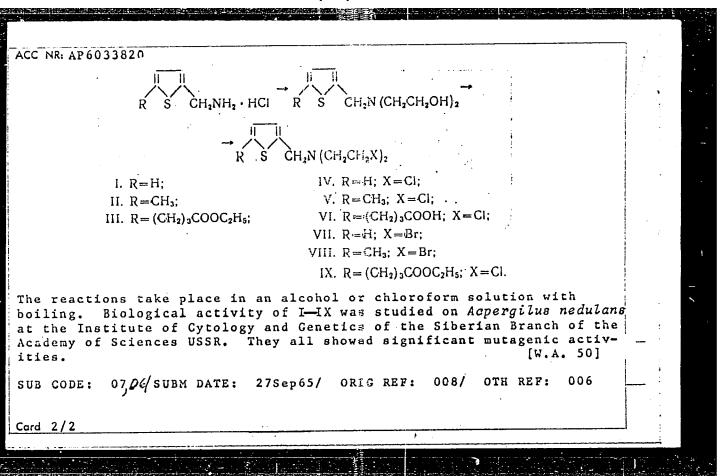
Theory of the inverse - e-decay. Vestsi AN BSSR. Ser.
fiz.-mat.nav. no.2:88-94 '65.

(MIRA 19:1)

L 04651-67 EWT (m) SOURCE CODE: UR/0201/66/000/002/0005/0011 ACC NR: AP6024001 AUTHOR: Shishkin, G. V.; Sapozhnikov, V. V. ORG: Institute of Nuclear Physics AN BSSR (Institut yadernoy fiziki AN BSSR) TITLE: Influence of higher harmonics on the behavior of a subcritical reactor SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 2, 1966, 5-11 TOPIC TAGS: subcritical reactor, nuclear reactor characteristic, reactor neutron flux, slow neutron, neutron diffusion ABSTRACT: The author estimates the influence of the higher harmonics on the time behavior of a subcritical reactor by the two-group method of diffusion approximation, with allowance made for the effect of the delayed neutrons, which are unified in a single group with averaged parameters. The neutron-balance equations are solved by standard means and it is shown that at the frequencies at which pulsed reactors normally operate, an appreciable noise background exists in the reactor, resulting from the fact that the flux in the reactor does not have time to attenuate in the interval between pulses, and this noise accumulates in the course of time. Examples of calculated reactivities for each of the first eight harmonics, relative to the activities of the first narmonic, are presented for rectangular and cylindrical reactors. The higher harmonics are shown to attenuate more rapidly than the fundamental. Values of the background attenuation coefficients are also given. The numerical calculations show that in the case of small subcriticality the main contribution to the nonstation-<u>Card</u> 1/2

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first harmonic, since its damping factor is at least one order of magnitude that of the succeeding harmonic. However, allowance for the higher harmonic in cases where large negative reactivities are involved. The author academician AN BSSR A. K. Krasin for interest in the work and a discussional sults. Orig. art. has: 16 formulas and 2 tables.	ude lower than onics must be rs thank
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AUTHOR: Shishkin, G. V.	; Mamayev, V. P.				•
ORG: Novosibirsk Instit AN SSSR (Novosibirskiy i niya AN SSSR)	ute of Organic Ch Institut organiche	nemistry, Sibe	erian Departm Sibirskogo ot	dele-	
TITLE: Synthesis of N, N	I-di-(β-haloethyl)	aminomethylth	niophenes		
SOURCE: AN SSSR. Sibin cheskikh nauk, no. 2, 19		. Izvestiya.	Seriya khim	1 <b>1</b> -	
TOPIC TAGS: mutagenics, aminomethylthiophene, bi compound, wilegic mutat	comethylaminoethyl	lthiophene, how	logenated origan	~ C	9
ABSTRACT: The N, N-di (β-obtained in 80-90% yiell hydrochlorides of 2-amin	-haloethyl)aminome ld from ethylene o	ethylthiophenoxide and the	es (1—1X) we correspondin	ere	•
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SHISHKIN, I., glavnyy inzhener.

Increane steadily the labor productivity in open-pit mining. Mast. ugl.
(MLRA 6:6)
2 no.7:12-14 J1 '53.

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(Coal mines and mining)